BROUGHT BY STATE

EPA/State of North Dakota

February 5, 2002
EPA Region 8 HQ
Denver, Colorado **Agenda**

Problem statement: ND seeks to construct one or more base load generation plants in the state. PSD increment issues, based upon previous modeling practices must be addressed.

1. **Purpose of meeting: (i.e. what are the goals?)**
   a. ND maintenance of air quality; allowing growth in the state.
   b. EPA perspective

2. **Establish a working relationship and a comprehensive plan agreeable to EPA and ND that resolves increment issues and allows growth within the state.**

3. **Processes and mechanisms that effect this effort:**
   a. Regional Haze
   b. EPA's administrative flexibility to deal with air quality issues in concert with the State of North Dakota
   c. Potential SIP call/ modification
   d. Baseline evaluations
   e. Modeling methodologies/ and assumptions relating to PSD
   f. Possible NSR enforcement actions
   g. Industry interest in new investment, regulatory certainty etc.
   h. CITIZEN ACTION (SUGGESTION TO ADD - KERRY.)

4. **Identification of key issues: (discussion)**
   a. Oil and Gas Emission Data for Baseline. - STATE SHOULD HAVE W/IN A WEEK OR SO
   b Variances for DGC and Little Knife
   c. Identify "Normal Operations" of baseline sources
      Consider use of 1975-80 emission data, select peak 2 yrs. for each baseline source based on heat input i.e. demand
   d. Consider using 2000/2001 emission data for model input. STATE WILL USE BOTH. HAVE 1ST 3 QS TO DATE 2001 EMISS. COMPARABLE TO 2000
   e. Examine using Actual Annual Average Emission Rate for all periods
      a. Use emission data for 2000/2001
      b. Use actual operating hours
      c. Calculate 3 hr and 24 hr based on TPY/hrs of operation
   f. Average receptor data
   g. Calpuff model at 200 km. WAS 300 km. PROBABLY WON'T MAKE MUCH DIFFERENCE IN MODEL RES
   h. Single baseline concentration for 3 hour and 24 hour standard:
   i.. Other

5. **Resolution of the Federal Register issue**

6. **Next meeting date; action items and assignments**

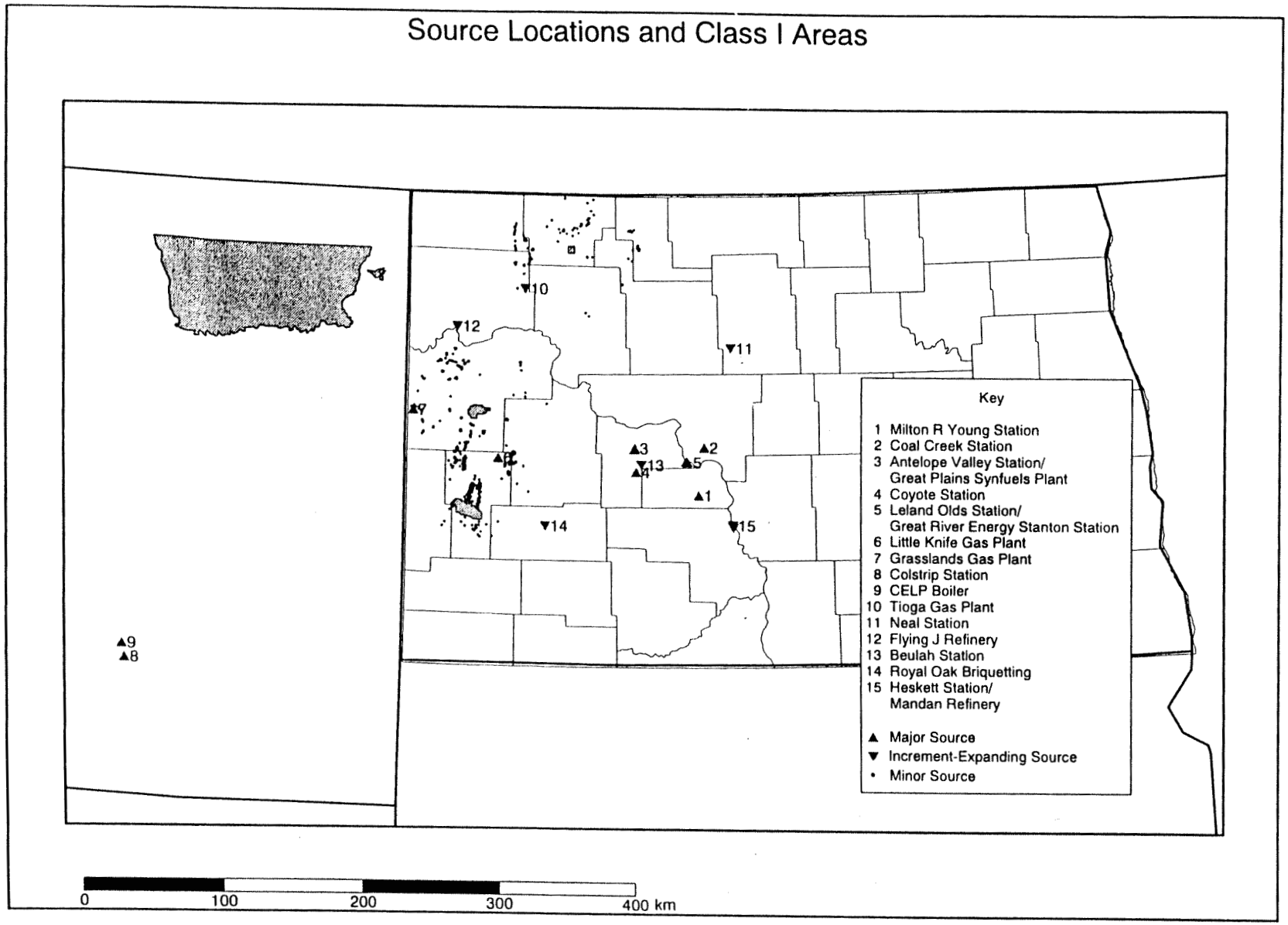

Figure 1. A map of the locations of major stationary sources of sulfur dioxide and minor source oil and gas production wells.

Table 4. Dates applications received and completed, dates permits to construct and operate issued and dates of plant startup or shutdown.

Potential PSD Increment-expanding sources

BP Amoco Oil Refinery	BP Amoco Oil	_____	na	_____	unk-54	yes
Lignite Gas	Oxy NGL, Inc.	_____	na	_____	unk-61	yes

PSD sources shutdown *				**PTC Date**		
Temple Gas	Amerada Hess	Feb-84	na	Oct-84	unk-85	shutdown Aug-96
Teddy Roosevelt	Western Gas Processors	Mar-79	na	Jul-79	Nov-80	shutdown Jul-93
Perry Petrolane	Perry Processing Co.	unknown	na	Dec-77	unknown	shutdown abt-92
Shell-Oil Gas	Shell Oil	Jun-79	na	Nov-77	Jul-79	shutdown abt-92
Boxcar Butte	Kerr McGee	Sep-75	na	Nov-75 **	unk-76 **	shutdown unk-87
Trenton Gas	Phillips Petroleum	Sep-80	na	Oct-82	unk-81	shutdown unk-87
Killdeer Gas	Koch Hydrocarbon	_____	na	_____	unk-80	shutdown unk-85

* no longer PSD affecting sources and not PSD increment-expanding sources
** A PTC for an expansion making the plant a major source was issued May 1976. Startup of the expansion began March 1977.

Baseline sources

Plant	**Owner or Operator**	**Date Permit Ap Rec'd**		**PTO Date**	**Date of Startup**	**Operating**
M.R. Young U-2	Minnkota Power Coop.	Sep-73	na	Jun-74	Mar-77	yes @
M.R. Young U-1	Minnkota Power Coop.	Apr-73	na	Jun-73	Oct-70	yes @
Stanton U-1	Great River Energy	Mar-73	na	Jun-73	unk-67	yes @
Leland Olds U-2	Basin Electric Coop.	Mar-73	na	Jun-73	Nov-75	yes @
Leland Olds U-1	Basin Electric Coop.	Mar-73	na	Jun-73	unk-66	yes @
Heskett U-2 *	Montana Dakota Utilities	Apr-73	na	Jun-73	unk-63	yes @
Heskett U-1	Montana Dakota Utilities	Apr-73	na	Jun-73	unk-54	yes

unk = unknown bfr = before * May be an increment expander as its boiler was converted to a fluidized bed in the mid 80s.
@ BART (Best Available Retrofit Technology) eligible source, per CAA section 308 and 40 FR 51.308(e).